

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 0918561200
Source: STFW/6
Date Processed by STIC: 11/24/06

ENTERED



IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/856,200

DATE: 11/24/2006
TIME: 15:45:59

Input Set : A:\54203-H-PCT-US.txt
Output Set: N:\CRF4\11242006\I856200.raw

3 <110> APPLICANT: Kwong, Peter D.
4 Hendrickson, Wayne A.
5 Sodroski, Joseph G.
6 Wyatt, Richard T.
8 <120> TITLE OF INVENTION: CRYSTALLOGRAPHY-RELATED METHOD FOR IDENTIFYING POTENTIAL
9 INHIBITORS OF THE CD4-GP120 INTERACTION
11 <130> FILE REFERENCE: 54203-H-PCT-US
13 <140> CURRENT APPLICATION NUMBER: 09/856,200
14 <141> CURRENT FILING DATE: 2003-01-03
16 <150> PRIOR APPLICATION NUMBER: PCT/US98/23905
17 <151> PRIOR FILING DATE: 1998-11-10
19 <150> PRIOR APPLICATION NUMBER: US 09/100,631
20 <151> PRIOR FILING DATE: 1998-06-18
22 <150> PRIOR APPLICATION NUMBER: US 08/976,741
23 <151> PRIOR FILING DATE: 1997-11-24
25 <150> PRIOR APPLICATION NUMBER: US 09/100,763
26 <151> PRIOR FILING DATE: 1998-06-18
28 <150> PRIOR APPLICATION NUMBER: US 08/966,987
29 <151> PRIOR FILING DATE: 1997-11-10
31 <150> PRIOR APPLICATION NUMBER: US 09/100,529
32 <151> PRIOR FILING DATE: 1998-06-18
34 <150> PRIOR APPLICATION NUMBER: US 08/967,403
35 <151> PRIOR FILING DATE: 1997-11-10
37 <150> PRIOR APPLICATION NUMBER: US 09/100,762
38 <151> PRIOR FILING DATE: 1998-06-18
40 <150> PRIOR APPLICATION NUMBER: US 08/966,932
41 <151> PRIOR FILING DATE: 1997-11-10
43 <150> PRIOR APPLICATION NUMBER: US 09/100,521
44 <151> PRIOR FILING DATE: 1998-06-18
46 <150> PRIOR APPLICATION NUMBER: US 08/967,148
47 <151> PRIOR FILING DATE: 1997-11-10
49 <160> NUMBER OF SEQ ID NOS: 13
51 <170> SOFTWARE: PatentIn version 3.3
53 <210> SEQ ID NO: 1
54 <211> LENGTH: 320
55 <212> TYPE: PRT
56 <213> ORGANISM: Homo sapiens
58 <400> SEQUENCE: 1
60 Gly Ala Arg Ser Glu Val Val Leu Val Asn Val Thr Glu Asn Phe Asn
61 1 5 10 15
64 Met Trp Lys Asn Asp Met Val Glu Gln Met His Glu Asp Ile Ile Ser
65 20 25 30
68 Leu Trp Asp Gln Ser Leu Lys Pro Cys Val Lys Leu Thr Pro Leu Cys

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/856,200

DATE: 11/24/2006
TIME: 15:45:59

Input Set : A:\54203-H-PCT-US.txt
Output Set: N:\CRF4\11242006\I856200.raw

69 35 40 45
 72 Val Gly Ala Gly Ser Cys Asn Thr Ser Val Ile Thr Gln Ala Cys Pro
 73 50 55 60
 76 Lys Val Ser Phe Glu Pro Ile Pro Ile His Tyr Cys Ala Pro Ala Gly
 77 65 70 75 80
 80 Phe Ala Ile Leu Lys Cys Asn Asn Lys Thr Phe Asn Gly Thr Gly Pro
 81 85 90 95
 84 Cys Thr Asn Val Ser Thr Val Gln Cys Thr His Gly Ile Arg Pro Val
 85 100 105 110
 88 Val Ser Thr Gln Leu Leu Leu Asn Gly Ser Leu Ala Glu Glu Val
 89 115 120 125
 92 Val Ile Arg Ser Val Asn Phe Thr Asp Asn Ala Lys Thr Ile Ile Val
 93 130 135 140
 96 Gln Leu Asn Thr Ser Val Glu Ile Asn Cys Thr Gly Ala Gly His Cys
 97 145 150 155 160
 100 Asn Ile Ser Arg Ala Lys Trp Asn Asn Thr Leu Lys Gln Ile Ala Ser
 101 165 170 175
 104 Lys Leu Arg Glu Phe Gly Asn Asn Lys Thr Ile Ile Phe Lys Gln Ser
 105 180 185 190
 108 Ser Gly Gly Asp Pro Glu Ile Val Thr His Ser Phe Asn Cys Gly Gly
 109 195 200 205
 112 Glu Phe Phe Tyr Cys Asn Ser Thr Gln Leu Phe Asn Ser Thr Trp Phe
 113 210 215 220
 116 Asn Ser Thr Trp Ser Thr Glu Gly Ser Asn Asn Thr Glu Gly Ser Asp
 117 225 230 235 240
 120 Thr Ile Thr Leu Pro Cys Arg Ile Lys Gln Ile Ile Asn Met Trp Gln
 121 245 250 255
 124 Lys Val Gly Lys Ala Met Tyr Ala Pro Pro Ile Ser Gly Gln Ile Arg
 125 260 265 270
 128 Cys Ser Ser Asn Ile Thr Gly Leu Leu Leu Thr Arg Asp Gly Gly Asn
 129 275 280 285
 132 Ser Asn Asn Glu Ser Glu Ile Phe Arg Pro Gly Gly Asp Met Arg
 133 290 295 300
 136 Asp Asn Trp Arg Ser Glu Leu Tyr Lys Tyr Lys Val Val Lys Ile Glu
 137 305 310 315 320
 140 <210> SEQ ID NO: 2
 141 <211> LENGTH: 300
 142 <212> TYPE: PRT
 143 <213> ORGANISM: Homo sapiens
 145 <400> SEQUENCE: 2
 147 Glu Ile Val Leu Glu Asn Val Thr Glu Ser Phe Asn Met Trp Lys Asn
 148 1 5 10 15
 151 Asp Met Val Asp Gln Met His Gln Asp Val Ile Ser Leu Trp Asp Gln
 152 20 25 30
 155 Ser Leu Lys Pro Cys Val Lys Leu Thr Pro Leu Cys Val Asn Cys Asn
 156 35 40 45
 159 Thr Ser Ala Ile Thr Gln Ala Cys Pro Lys Val Thr Leu Asp Pro Ile
 160 50 55 60
 163 Pro Ile His Tyr Cys Ala Pro Ala Gly Tyr Ala Ile Leu Lys Cys Asn

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/856,200

DATE: 11/24/2006
TIME: 15:45:59

Input Set : A:\54203-H-PCT-US.txt
Output Set: N:\CRF4\11242006\I856200.raw

164 65 70 75 80
167 Asn Lys Thr Phe Asn Gly Thr Gly Pro Cys Asn Asn Val Ser Thr Val
168 85 90 95
171 Gln Cys Thr His Gly Ile Lys Pro Val Ile Ser Thr Gln Leu Leu Leu
172 100 105 110
175 Asn Gly Ser Ile Ala Glu Glu Ile Ile Ile Arg Ser Glu Asn Leu
176 115 120 125
179 Thr Asn Asn Ala Lys Ile Ile Val Gln Leu Asn Lys Ser Val Glu
180 130 135 140
183 Ile Asn Cys Ala Tyr Cys Asn Ile Ser Arg Asn Glu Trp Asn Ile Thr
184 145 150 155 160
187 Leu Gln Trp Val Arg Glu Lys Leu Lys Arg His Phe Pro Asn Lys Thr
188 165 170 175
191 Ile Asn Phe Thr Gln Pro Ser Gly Gly Asp Leu Glu Ile Thr Thr His
192 180 185 190
195 Ser Phe Asn Cys Arg Gly Glu Phe Phe Tyr Cys Asn Thr Ser Ser Leu
196 195 200 205
199 Phe Asn Ser Ser Asp Asn Asn Ser Thr Ile Ile Thr Leu Pro Cys
200 210 215 220
203 Arg Ile Lys Gln Ile Ile Asn Met Trp Gln Gly Val Gly Arg Ala Met
204 225 230 235 240
207 Tyr Ala Pro Pro Ile Lys Gly Lys Ile Thr Cys Arg Ser Asn Ile Thr
208 245 250 255
211 Gly Leu Leu Leu Thr Arg Asp Gly Gly Glu Thr Ser Glu Thr Asn Ser
212 260 265 270
215 Thr Glu Thr Phe Arg Pro Gly Gly Asp Met Arg Asp Asn Trp Arg
216 275 280 285
219 Ser Glu Leu Tyr Lys Tyr Lys Val Val Glu Val Lys
220 290 295 300
223 <210> SEQ ID NO: 3
224 <211> LENGTH: 313
225 <212> TYPE: PRT
226 <213> ORGANISM: Homo sapiens
228 <400> SEQUENCE: 3
230 Glu Tyr Pro Leu His Asn Val Thr Asp Asp Phe Asn Ile Trp Lys Asn
231 1 5 10 15
234 Tyr Met Val Glu Gln Met Gln Glu Asp Ile Ile Ser Leu Trp Asp Gln
235 20 25 30
238 Ser Leu Lys Pro Cys Val Gln Met Thr Phe Leu Cys Val Asn Cys Asn
239 35 40 45
242 Ser Thr Thr Ile Thr Gln Ala Cys Pro Lys Val Ser Phe Glu Pro Ile
243 50 55 60
246 Pro Ile His Tyr Cys Ala Pro Ala Gly Tyr Ala Ile Phe Lys Cys Asn
247 65 70 75 80
250 Ser Thr Glu Phe Asn Gly Thr Gly Thr Cys Arg Asn Ile Thr Val Val
251 85 90 95
254 Thr Cys Thr His Gly Ile Arg Pro Thr Val Ser Thr Gln Leu Ile Leu
255 100 105 110
258 Asn Gly Thr Leu Ser Lys Gly Lys Ile Arg Met Met Ala Lys Asp Ile

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/856,200

DATE: 11/24/2006
TIME: 15:45:59

Input Set : A:\54203-H-PCT-US.txt
Output Set: N:\CRF4\11242006\I856200.raw

259 115 120 125
 262 Leu Glu Gly Gly Lys Asn Ile Ile Val Thr Leu Asn Ser Thr Leu Asn
 263 130 135 140
 266 Met Thr Cys Glu Tyr Cys Lys Tyr Asn Ala Thr Asp Trp Gly Lys Ile
 267 145 150 155 160
 270 Leu Lys Gln Thr Ala Glu Arg Tyr Leu Glu Leu Val Asn Asn Thr Gly
 271 165 170 175
 274 Ser Ile Asn Met Thr Phe Asn His Ser Ser Gly Gly Asp Leu Glu Val
 275 180 185 190
 278 Thr His Leu His Phe Asn Cys His Gly Glu Phe Phe Tyr Cys Asn Thr
 279 195 200 205
 282 Ala Lys Met Phe Asn Tyr Thr Phe Ser Cys Asn Gly Thr Thr Cys Ser
 283 210 215 220
 286 Val Ser Asn Val Ser Gln Gly Asn Asn Gly Thr Leu Pro Cys Lys Leu
 287 225 230 235 240
 290 Arg Gln Val Val Arg Ser Trp Ile Arg Gly Gln Ser Gly Leu Tyr Ala
 291 245 250 255
 294 Pro Pro Ile Lys Gly Asn Leu Thr Cys Met Ser Asn Ile Thr Gly Met
 295 260 265 270
 298 Ile Leu Gln Met Asp Asn Thr Trp Asn Ser Ser Asn Asn Val Thr
 299 275 280 285
 302 Phe Arg Pro Ile Gly Gly Asp Met Lys Asp Ile Trp Arg Thr Glu Leu
 303 290 295 300
 306 Phe Asn Tyr Lys Val Val Arg Val Lys
 307 305 310
 310 <210> SEQ ID NO: 4
 311 <211> LENGTH: 299
 312 <212> TYPE: PRT
 313 <213> ORGANISM: Homo sapiens
 315 <400> SEQUENCE: 4
 317 Glu Ile Thr Leu Asn Val Thr Glu Ala Phe Asp Ala Trp Asn Asn Thr
 318 1 5 10 15
 321 Val Thr Glu Gln Ala Ile Glu Asp Val Trp His Leu Phe Glu Thr Ser
 322 20 25 30
 325 Ile Lys Pro Cys Val Lys Leu Thr Pro Leu Cys Val His Cys Asn Thr
 326 35 40 45
 329 Ser Val Ile Thr Glu Ser Cys Asp Lys His Tyr Trp Asp Ala Ile Arg
 330 50 55 60
 333 Phe Arg Tyr Cys Ala Pro Pro Gly Tyr Ala Leu Leu Arg Cys Asn Asp
 334 65 70 75 80
 337 Thr Asn Tyr Ser Gly Phe Ala Pro Asn Cys Ser Lys Val Val Ala Ser
 338 85 90 95
 341 Thr Cys Thr Arg Met Met Glu Thr Gln Thr Ser Thr Trp Phe Gly Phe
 342 100 105 110
 345 Asn Gly Thr Arg Ala Glu Asn Thr Arg Tyr Ile Tyr Trp His Gly Arg
 346 115 120 125
 349 Asp Asn Arg Thr Ile Ile Ser Leu Asn Lys Tyr Tyr Asn Leu Ser Leu
 350 130 135 140
 353 His Cys Lys Trp Cys Trp Phe Lys Gly Lys Trp Lys Asp Ala Met Gln

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/856,200

DATE: 11/24/2006
TIME: 15:45:59

Input Set : A:\54203-H-PCT-US.txt
Output Set: N:\CRF4\11242006\I856200.raw

354 145 150 155 160
 357 Glu Val Lys Glu Thr Leu Ala Lys His Pro Arg Tyr Arg Gly Thr Asn
 358 165 170 175
 361 Asp Thr Arg Asn Ile Ser Phe Ala Ala Pro Gly Lys Gly Ser Asp Pro
 362 180 185 190
 365 Glu Val Ala Tyr Met Trp Thr Asn Cys Arg Gly Glu Phe Leu Tyr Cys
 366 195 200 205
 369 Asn Met Thr Trp Phe Leu Asn Trp Ile Glu Asn Lys Thr His Arg Asn
 370 210 215 220
 373 Tyr Ala Pro Cys His Ile Lys Gln Ile Ile Asn Thr Trp His Lys Val
 374 225 230 235 240
 377 Gly Arg Asn Val Tyr Leu Pro Pro Arg Glu Gly Glu Leu Ser Cys Asn
 378 245 250 255
 381 Ser Thr Val Thr Ser Ile Ile Ala Asn Ile Asp Trp Gln Asn Asn Asn
 382 260 265 270
 385 Gln Thr Asn Ile Thr Phe Ser Ala Glu Val Ala Glu Leu Tyr Arg Leu
 386 275 280 285
 389 Glu Leu Gly Asp Tyr Lys Leu Val Glu Ile Thr
 390 290 295
 393 <210> SEQ ID NO: 5
 394 <211> LENGTH: 296
 395 <212> TYPE: PRT
 396 <213> ORGANISM: Homo sapiens
 398 <400> SEQUENCE: 5
 400 Glu Val Pro Leu Asn Ile Thr Glu Ala Phe Glu Ala Trp Asp Asn Pro
 401 1 5 10 15
 404 Leu Val Lys Gln Ala Glu Ser Asn Ile His Leu Leu Phe Glu Gln Thr
 405 20 25 30
 408 Met Arg Pro Cys Val Lys Leu Ser Pro Ile Cys Ile His Cys Asn Asp
 409 35 40 45
 412 Ser Val Ile Lys Glu Ala Cys Asp Lys Thr Tyr Trp Asp Thr Leu Arg
 413 50 55 60
 416 Val Arg Tyr Cys Ala Pro Ala Gly Tyr Ala Leu Leu Lys Cys Asn Asp
 417 65 70 75 80
 420 Lys Asp Tyr Arg Gly Phe Ala Pro Lys Cys Lys Asn Val Ser Val Val
 421 85 90 95
 424 His Cys Thr Arg Leu Ile Asn Thr Thr Ile Thr Thr Gly Ile Gly Leu
 425 100 105 110
 428 Asn Gly Ser Arg Ser Glu Asn Arg Thr Glu Ile Trp Gln Lys Gly Gly
 429 115 120 125
 432 Asn Asp Asn Asp Thr Val Ile Ile Lys Leu Asn Lys Phe Tyr Asn Leu
 433 130 135 140
 436 Thr Val Arg Cys Arg Trp Cys His Phe Gln Gly Asp Trp Lys Gly Ala
 437 145 150 155 160
 440 Trp Lys Glu Val Arg Glu Glu Val Lys Lys Val Lys Asn Leu Thr Glu
 441 165 170 175
 444 Val Ser Ile Glu Asn Ile His Leu Arg Arg Ile Trp Gly Asp Pro Glu
 445 180 185 190
 448 Ser Ala Asn Phe Trp Phe Asn Cys Gln Gly Glu Phe Phe Thr Cys Lys

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/856,200

DATE: 11/24/2006

TIME: 15:46:00

Input Set : A:\54203-H-PCT-US.txt

Output Set: N:\CRF4\11242006\I856200.raw